

Motor Type AC CENTRIFUGAL BACKWARD CURVED FAN 250 x 50 7B R69L1

Code: 30.970111

Project code: P11919

Supply	Poles	Speed	Stator	Impeller Type		
220 V	50/60 Hz	~ 1	2	1	M35	Centrifugal Backward Curved Blade single inlet

Nominal Data

Nominal voltage	[V]	220
Frequency	[Hz]	50/60
Speed	[rpm]	2436
Power input	[kW]	0,18
Current draw	[A]	0,84
cos φ	[-]	0,99
Max Efficiency (stat A)	[%]	43,8
Efficiency Grade (N)	[-]	62,0
Capacitor	[μF]	5
	[V]	450

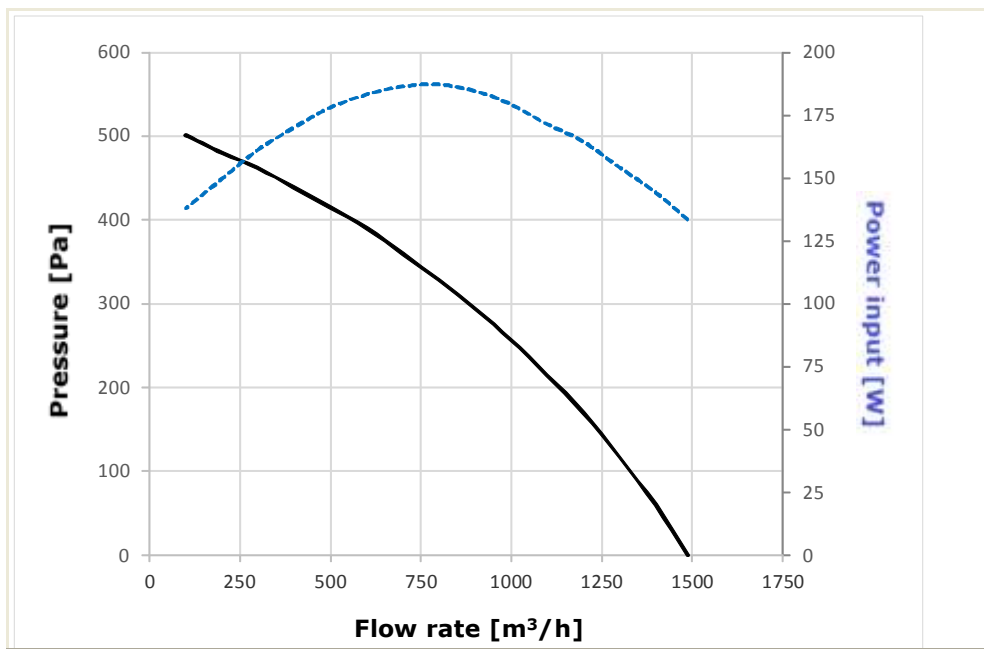


Technical Features

	50 Hz	60 Hz	Temperature Rise				
Max. operating temperature	[°C]	65	60	Test Setup @ 233 V			
	[°F]	149	140	50 Hz	60 Hz		
Min. operating temperature	[°C]	-30		Full Flow Inlet Diameter 170mm			
	[°F]	-22		ΔT Main	[K]	69	63
Air flow @ 0 Pa	[m³/h]	1487		ΔT Aux	[K]	69	70
Thermal protector	Automatic reset		Working Point				
Insulation class	F		ΔT Main	[K]	48	63	
Motor bearing	Ball bearing		ΔT Aux	[K]	44	58	
Protection level	IP33						
Product compliant to	CE; EN 60335-1						
Approval	CSA on request						
	VDE on request						
Rotation (seen on rotor side)	Clockwise						
Impeller size (Ø x h)	[mm]	250 x 50 7B R69L1					
Impeller material	Metal						
Weight	[kg]	2,64					
Cable length	[mm]	400					
Condensate discharge holes (on rotor side)	YES						
ERP compliant	ERP 2015						

Air flow performance at 220V 50Hz

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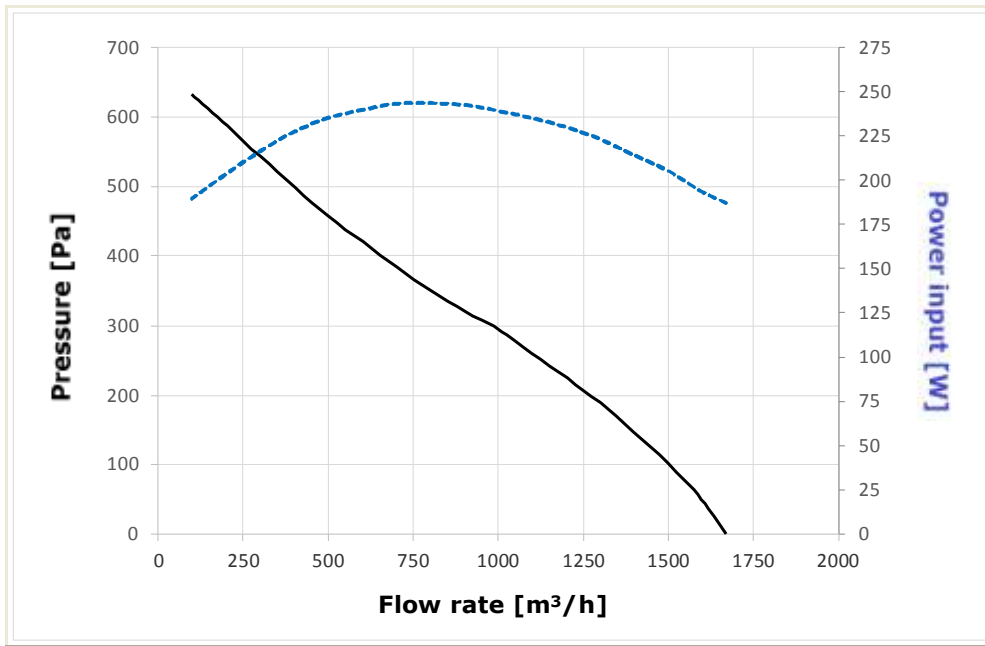
TEST SETUP:

Inlet Cone Ø171.8mm
100261

Supply		Speed	Power	Current	Efficiency	Flow rate	Pressure	Flow rate	Pressure
[V]	[Hz]	[rpm]	[W]	[A]	[%]	[m³/h]	[Pa]	[cfm]	[in_H ₂ O]
220	50	2680	138	0,65	10,1	100	501	59	2,011
220	50	2436	184	0,84	39,8	902	293	531	1,176
220	50	2540	165	0,76	34,4	1199	170	706	0,683
220	50	2699	134	0,63	0,0	1487	0	875	0,000
220	50	0	322	1,52	Locked rotor test				
220	50	2616	151	0,70	Free Air test without scroll				

Air flow performance at 220V 60Hz

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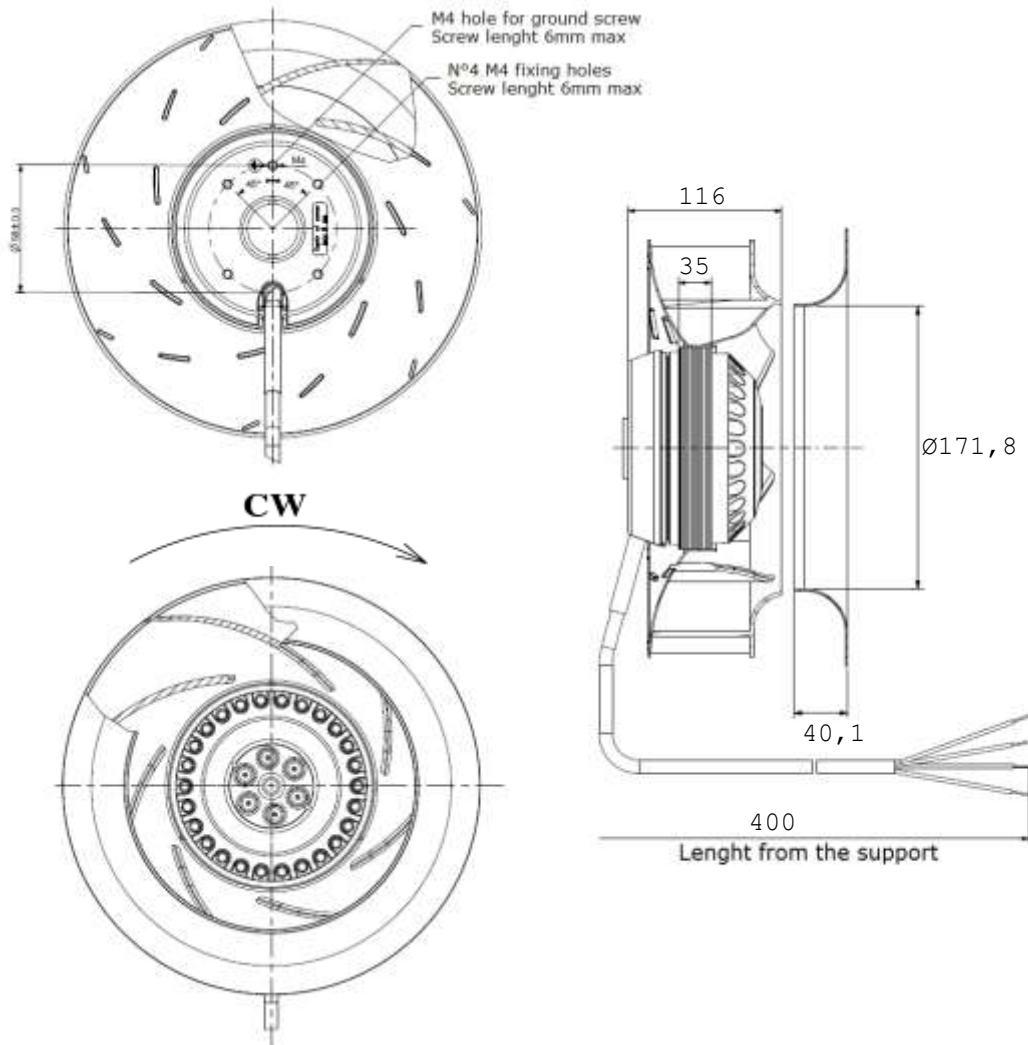
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Supply		Speed	Power	Current	Efficiency	Flow rate	Pressure	Flow rate	Pressure
[V]	[Hz]	[rpm]	[W]	[A]	[%]	[m³/h]	[Pa]	[cfm]	[in_H ₂ O]
220	60	3026	190	0,87	9,1	98	632	58	2,537
220	60	2550	239	1,09	34,2	998	295	587	1,184
220	60	2737	223	1,01	30,6	1299	189	765	0,759
220	60	3041	187	0,86	0,0	1668	0	982	0,000
220	60	0	311	1,45	Locked rotor test				
220	60	2890	207	0,94	Free Air test without scroll				

Overall Dimensions

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Wiring Diagram

